

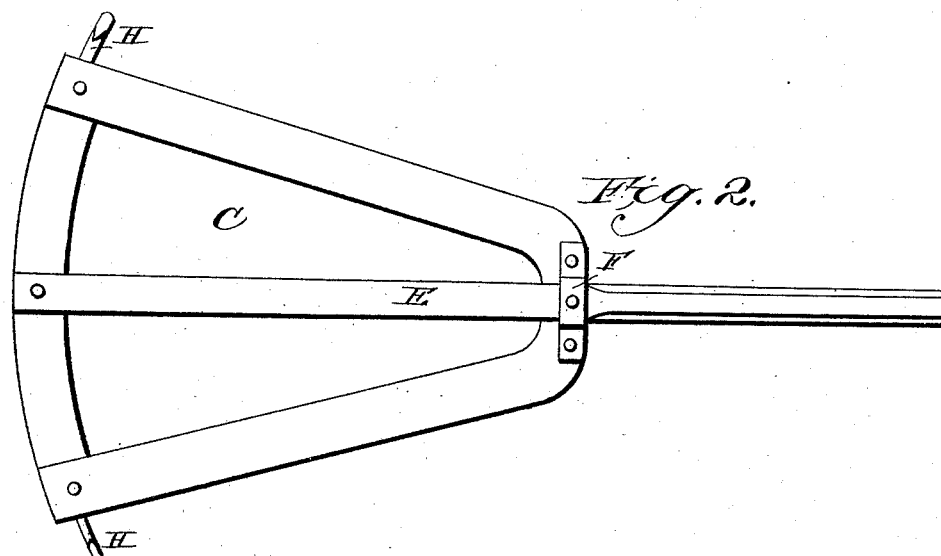
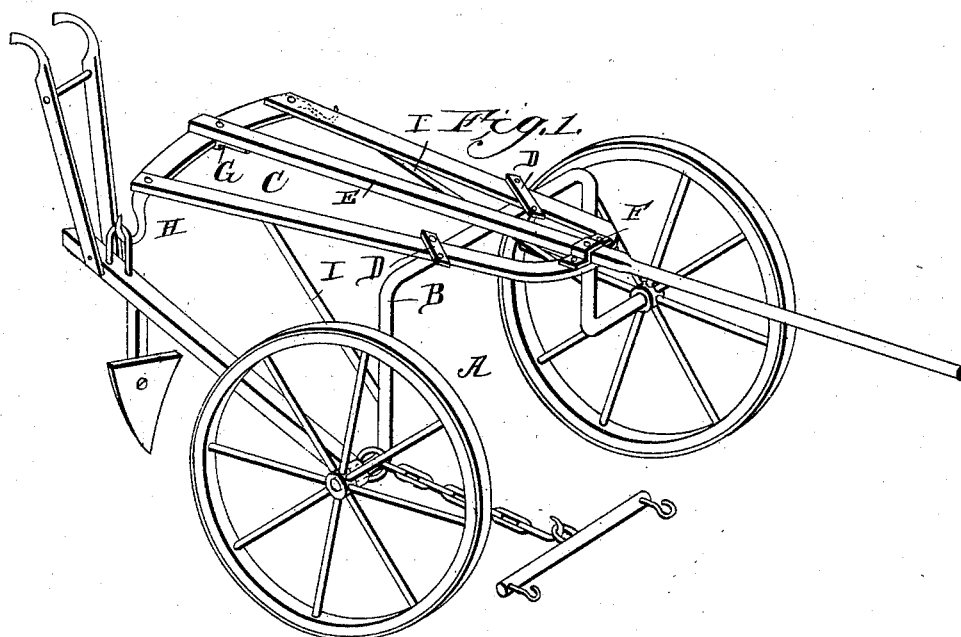
(No Model.)

J. L. COMSTOCK.

ATTACHMENT FOR TONGUELESS CULTIVATORS.

No. 422,919.

Patented Mar. 11, 1890.



Witnesses

Henry E. Dieterich
R. W. Bishop

Inventor

James L. Comstock,

By *his* Attorneys

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JAMES LEROY COMSTOCK, OF BEAR GROVE, IOWA.

ATTACHMENT FOR TONGUELESS CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 422,919, dated March 11, 1890.

Application filed May 24, 1888. Serial No. 274,920. (No model.)

To all whom it may concern:

Be it known that I, JAMES LEROY COMSTOCK, a citizen of the United States, residing at Bear Grove, in the county of Guthrie and State of Iowa, have invented a new and useful Improvement in Cultivator Attachments, of which the following is a specification.

My invention relates to improvements in attachments for tongueless cultivators; and it consists in certain novel features, hereinafter described and claimed.

One object of my invention is to provide means whereby the beams can be hung up without stopping the team and letting down the runners and hooking up the beams, as is the case with the tongueless cultivators now in use.

A further object of my invention is to prevent young and fractious teams from backing on or over the cultivator.

A further object of my invention is to provide means of backing the cultivator by the team instead of by hand.

A further object of my invention is to furnish means whereby the cultivator can be driven from field to field or on the road without danger of running on the team and causing runaways or other damage.

A further object of the invention is to provide means for changing the cultivator from a tongueless to a tongued cultivator, and vice versa.

In the accompanying drawings, which fully illustrate my invention, Figure 1 is a perspective view of a cultivator provided with my improvement, and Fig. 2 is a plan view of the attachment.

Referring to the drawings by letter, A designates a tongueless cultivator having the usual arch B.

C designates the frame of my attachment, consisting of a substantially triangular wrought-iron frame secured to the arch of the cultivator by means of the clips D, passed downward over the side bars of the frame and the arch, as clearly shown. The rear side or end of the frame C is curved to form a guide for the rear end of the tongue E, which is pivoted in a keeper F on the upper side of the frame, at the front end of the

same. The tongue E has secured to its under side at its rear end a plate G, which projects under the rear curved end of the frame C, and thereby supports the rear end of the frame.

At the rear corners of the frame I provide the hooks HH, formed by the reduced ends of the flat segmental rear bar of the frame, and on which the cultivator-beams may be supported when moving from field to field. The frame is further braced and supported by means of the brace-rods II, which run from the sides of the frame to the sides of the arch.

From the foregoing description it will be seen that I have provided a very simple device, and its advantages are thought to be obvious. The tongue is used for steering purposes only when moving from field to field, in which case the rear end of the tongue is secured rigidly to the rear bar of the frame by a suitable pin, thus changing the tongue from a loose to a fixed tongue. Ordinarily, however, the tongue is loose and plays freely from side to side, yielding readily to the motion of the cultivator, so as not to chafe the necks of the animals, and in no way interfering with the making of short turns. Should the team back from any cause, the tongue will hold the animals from backing onto the cultivator-beams.

The attachment can be readily applied to any of the cultivators in ordinary use.

By removing the pivot-pin in the keeper F the tongue can be detached, thereby changing the cultivator from a tongued cultivator to a tongueless, leaving the frame in position to support the beams.

It is to be understood that my invention is not an improvement on the cultivator, but relates solely to an attachment for tongueless cultivators.

I am aware that cultivators have been heretofore made with detachable tongues, and I do not, therefore, broadly claim a detachable tongue, the novelty of my invention lying in the construction of the hound-frame with the hooks at the ends of its rear cross-bar, and the combination therewith of the pivoted tongue having the plate G at its rear end.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

5 The herein - described attachment for tongueless cultivators, the same consisting of a frame having sides that converge in front and are connected at their rear ends by a flat segmental bar, the ends of which are pointed and bent so as to form supporting-hooks for
10 the cultivator-beams, a clip or keeper at the front end of said frame, and a tongue pivoted detachably in said keeper and having near

its rear end an angular plate that projects under the segmental rear bar of the frame, which supports the rear end of the tongue, 15 substantially as herein described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JAMES LEROY COMSTOCK.

Witnesses:

G. W. REED,
S. A. ROSE.